

L4 ANSWER 23 OF 108 CA COPYRIGHT 2001 ACS
AN 131:326327 CA
TI Foamed concrete building blocks with high fly ash
content and their manufacture
IN Lu, Chongde
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM C04B026-00
CC 58-4 (Cement, Concrete, and Related Building Materials)
Section cross-reference(s): 60

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PI | CN 1148578 | A | 19970430 | CN 1995-118453 | 19951023 |
| AB | The foam concrete building blocks are manufd. from a mixt. contg. fly ash 30-60, cement 20-45, quicklime 5-20, filler (sand, crushed slag, carbide slag, etc.) 5-20, activator (Na ₂ SiO ₃ or Na ₂ S ₂ O ₃) 5-20, foaming agent (rosin pyrolytic polymer, SDBS, etc.) 0.18-0.25, additive (CaCl ₂ , NaCl, quicklime, Na ₂ S ₂ O ₃ , etc.) 0-0.8, and water. The prodn. process comprises mixing fly ash, cement, quicklime, filler, activator, additive, and water for 3-5 min, adding foaming paste (prepd. by mixing foaming agent with water at a ratio of 1:35-50), stirring for 8-15 min, pouring into mold, solidifying for 5-8 h, cutting, demolding, and curing by covering with vinyl house or black plastic film for 7-24 d. Hollow building blocks can be made by vacuumizing before cutting. | | | | |
| ST | building block foam concrete fly ash; foam building block concrete fly ash; concrete building block foam fly ash; fly ash building block foam concrete | | | | |
| IT | Lime (chemical) | | | | |